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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/689,574	10/12/2000	Dean Homan	20.2751	8258	
23718	7590 09/03/2002				
	ERGER OILFIELD S	EXAM	EXAMINER		
200 GILLINGHAM LANE MD 200-9			PATIDAR, JAY M		
SUGAR LAI	ND, TX 77478		ART UNIT	PAPER NUMBER	
			. 2862		
			DATE MAILED: 09/03/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

^ #		Application No.	Applicant(s)	- M			
		09/689,574	HOMAN ET AL.	·			
	Office Action Summary	Examiner	Art Unit	<del></del>			
	,	Jay M. Patidar	2862				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence addres	55			
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be t within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from cause the application to become ABANDON	imely filed  ays will be considered timely.  the mailing date of this commu  ED (35 U.S.C. § 133).	unication.			
1)⊠	Responsive to communication(s) filed on 26 J	<u>lune 2002</u> .					
2a)	This action is <b>FINAL</b> . 2b)⊠ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims							
•	Claim(s) 11-29,48-66,75 and 76 is/are pending	g in the application.					
,—	4a) Of the above claim(s) is/are withdraw	vn from consideration.					
	Claim(s) is/are allowed.						
· · ·	6)⊠ Claim(s) <u>11-29,48-66,75 and 76</u> is/are rejected.						
·	Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and/or on Papers	r election requirement.					
	The specification is objected to by the Examine	r.					
<i>,</i> —	The drawing(s) filed on is/are: a) accep		aminer				
,	Applicant may not request that any objection to the	i i					
11) 🗌 -	11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority u	ınder 35 U.S.C. §§ 119 and 120						
13)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(	a)-(d) or (f).				
a)[	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the prior application from the International Bursee the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).		ge			
14) 🗌 A	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment	(s)						
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>4</u>	5) Notice of Informal	ry (PTO-413) Paper No(s) Patent Application (PTO-15				
0.0							

Application/Control Number: 09/689,574

Art Unit: 2862

- This communication is in response to applicants amendment filed onJune
   26, 2002.
- 2. The disclosure is objected to because of the following informalities: The specification fails to disclose as to where the tubular is disposed within the borehole. It is unclear as to where the tubular is mounted.

Appropriate correction is required.

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11-29,48-66,75-76 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hubans (5,233,304) in view of Segesman (4,360,777).

Hubans discloses an apparatus for monitoring a characteristic of a reservoir including a tubular 25 having an elengated body with a longitudinal axis, the tubular being adapted for permanent disposal in the borehole; and at least one antenna 5 in a slot disposed on the exterior of the tubular. Hubans fails to show the antenna being electronically steered for directional measurement.

However this feature is known in the art as evidenced by Segesman. Segesman teaches to activate the antennae to electronically steer the sensing direction of the transmitted and/or received electromagnetic energy. Consequently, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Hubans to have included the antennae configuration as disclosed by Segesman so that the measurements can be selectively electronically measured.

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4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Chunduru et al. Is cited to show a resistivity data measurement apparatus using permanently installed sensors.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jay M. Patidar whose telephone number is 703-308-6723. The examiner can normally be reached on M-Thur 7:00-5:30.

The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-0956.

Jay M. Patidar Primary Examiner Tech Center 2862 August 28, 2002